

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/05629

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04Q7/38

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01S H04B H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, INSPEC, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KIM H-Y ET AL: "MOBILE POSITIONING USING IMPROVED LEAST SQUARES ALGORITHM IN CELLULAR SYSTEMS" IEICE TRANSACTIONS ON COMMUNICATIONS, INSTITUTE OF ELECTRONICS INFORMATION AND COMM. ENG. TOKYO, JP, vol. E84-B, no. 1, January 2001 (2001-01), pages 138-140, XP000977989 ISSN: 0916-8516 paragraph '0002!	1-3, 5-13, 15-25
E	WO 03 044986 A (BELCEA JOHN ;MESHNETWORKS INC (US)) 30 May 2003 (2003-05-30)  paragraph '0024! - paragraph '0036! claim 13  --- -/--	1-6, 8-16, 18-24



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

18 September 2003

Date of mailing of the international search report

30/09/2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 883 598 A (WEITZEN JAY ET AL) 16 March 1999 (1999-03-16)  column 14, line 29 -column 16, line 39 column 17, line 46 - line 62 -----	1-3, 6-13,16, 18-20
X	WO 01 69956 A (NOKIA NETWORKS OY ;MOILANEN JANI (FI)) 20 September 2001 (2001-09-20)  page 14, line 14 -page 16, line 18 page 18, line 7 - line 23 page 20, line 23 -page 21, line 27 -----	1-6, 8-16, 18-25

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03044986	A	30-05-2003	WO 03044986 A1	30-05-2003
US 5883598	A	16-03-1999	AT 192853 T	15-05-2000
			AU 1412097 A	14-07-1997
			CA 2240628 A1	26-06-1997
			DE 69608311 D1	15-06-2000
			DE 69608311 T2	14-09-2000
			EP 0870203 A1	14-10-1998
			WO 9722888 A1	26-06-1997
			US 6259404 B1	10-07-2001
WO 0169956	A	20-09-2001	AU 5616901 A	24-09-2001
			WO 0169956 A2	20-09-2001
			EP 1264507 A2	11-12-2002
			US 2003096622 A1	22-05-2003